

Addendum 1 to Final Report on X-ray Fluorescence Field Study Of Selected Properties in Vicinity of Former USS Lead Refinery Facility, East Chicago, Indiana, June 14, 2004

**Table 2. Evaluation of Results from Calibration of XRF Instrument with Standard Reference Material (SRM) 2711**

Sample Date	XRF Calibration Results for Lead (milligrams/kilogram)					
	SRM 2711 AM	Calibration range met	% Difference * AM	SRM 2711 PM	Calibration range met	% Difference * PM
7/23/03	1040 + 47.2	Low	10.5	No Reading	Unknown	N/A
7/24/03	1089.6 + 44.5	✓	6.2	1069.6 + 47.9	Low	8.0
7/29/03	1109.6 + 48.5	✓	4.5	1089.6 + 48.6	✓	6.2
7/30/03	1069.6 + 47.3	Low	8.0	1129.6 + 48.8	✓	2.8
7/31/03	1120 + 39.3	✓	3.6	1060 + 45.6	Low	8.8
8/5/03	1089.6 + 46.6	✓	6.2	1000 + 45.3	Low	13.9
8/6/03	1100 + 43.5	✓	5.3	1100 + 44.4	✓	5.3
8/7/03	1100 + 48.5	✓	5.3	1120 + 38.6	✓	3.6
8/10/03	1069.6 + 45.7	Low	8.0	1049.6 + 44.5	Low	9.7

XRF = X-Ray Fluorescence

SRM 2711 = Standard Reference Material 2711, Montana Soil with Moderately Elevated Trace Element Concentrations

Each XRF result for SRM 2711 includes a concentration value and associated reading error. The SRM calibration data was reported in Appendix E to *Final Report on X-ray Fluorescence Field Study Of Selected Properties in Vicinity of Former USS Lead Refinery Facility, East Chicago, Indiana, June 2004*.

SRM 2711 Certified Value for Lead was reported as **1162 ± 31 mg/kg**; XRF Results are expected to be biased low if XRF Screening Results plus error is less than 1131 mg/kg.

\* % Difference is calculated as  $[(\text{SRM Certified Value} - \text{XRF Reading}) / \text{SRM Certified Value} * 100\% = \% \text{ Difference}]$

AM and PM are reading time designations